



Bureau of Air Quality Title V Operating Permit

**Union County Regional MSW Landfill (Upstate Landfill)
868 Wildcat Road
Enoree, South Carolina 29335
Union County**

In accordance with the provisions of the *Pollution Control Act*, Sections 48-1-50(5) and 48-1-110(a), the 1976 *Code of Laws of South Carolina*, as amended, and *South Carolina Regulation 61-62, Air Pollution Control Regulations and Standards*, the Bureau of Air Quality authorizes the operation of this facility and the equipment specified herein in accordance with valid construction permits, and the plans, specifications, and other information submitted in the Title V permit application received on February 8, 2016, as amended.

The operation of this facility is subject to and conditioned upon the terms, limitations, standards, and schedules contained herein or as specified by this permit and its accompanying attachments.

Permit Number: TV-2180-0031

Issue Date: DRAFT
Expiration Date: DRAFT

Effective Date: DRAFT
Renewal Due Date: DRAFT

**Director, Engineering Services Division
Bureau of Air Quality**

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RECORD OF REVISIONS		
Date	Type	Description of Change

- AA Administrative Amendment
- MM Minor Modification
- SM Significant Modification

DRAFT

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A. EMISSION UNIT DESCRIPTION

Emission Unit ID	Emission Unit Description
01	MSW LANDFILL
02	VOID - LEACHATE STORAGE TANKS (Insignificant)
03	OPEN FLARE

B EQUIPMENT AND CONTROL DEVICE(S)

B.1 EQUIPMENT FOR EMISSION UNIT 01 - MSW LANDFILL

Equipment ID	Equipment Description	Installation/Modification Date	Control Device ID	Emission Point ID
FDE	Unpaved Roads used for vehicle travel (Fugitive Dust Emissions)	01/28/2002	None	0001
LDF	Municipal Solid Waste (MSW)	01/28/2002	FL01	FL-01

B.2 CONTROL DEVICE(S) FOR EMISSION UNIT 01 - MSW LANDFILL

Control Device ID	Control Device Description	Installation/Modification Date	Pollutant(s) Controlled
FL01	3,000 scfm open flare for combustion of landfill gas	4/19/2010	NMOC/VOCs/HAP

B.3 EQUIPMENT FOR EMISSION UNIT 03 - OPEN FLARE

Equipment ID	Equipment Description	Installation/Modification Date	Control Device ID	Emission Point ID
Flare	3,000 scfm open flare for combustion of landfill gas	4/19/2010	None	FL-01

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

(S.C. Regulation 61-62.1, Section II; S.C. Regulation 61-62.70.6.a.3.i.B)

Condition Number	Condition
C.1	Emission Unit ID: All Equipment/Control Device ID: All

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

(S.C. Regulation 61-62.1, Section II; S.C. Regulation 61-62.70.6.a.3.i.B)

Condition Number	Condition
	Equipment capacities provided under the Equipment Description column of the Equipment Tables above are not intended to be permit limits unless otherwise specified within the Table of Conditions for the particular equipment. However, this condition does not exempt the facility from the construction permitting process, from PSD review, nor from any other applicable requirements that must be addressed prior to increasing production rates.
C.2	<p>Emission Unit ID: All</p> <p>Equipment/Control Device ID: All</p> <p>(S.C. Regulation 61-62.1, Section II.J.1.g) A copy of the Department issued construction and/or operating permit must be kept readily available at the facility at all times. The owner or operator shall maintain such operational records; make reports; install, use, and maintain monitoring equipment or methods; sample and analyze emissions or discharges in accordance with prescribed methods at locations, intervals, and procedures as the Department shall prescribe; and provide such other information as the Department reasonably may require. All records required to demonstrate compliance with the limits established under this permit shall be maintained on site for a period of at least 5 years from the date the record was generated and shall be made available to a Department representative upon request.</p>
C.3	<p>Emission Unit ID: 01</p> <p>Equipment/Control Device ID: LDF/FL01</p> <p>The owner/operator shall inspect, calibrate, adjust, and maintain continuous monitoring systems, monitoring devices, and gauges in accordance with manufacturer's specifications or good engineering practices. The owner or operator shall maintain on file all measurements including continuous monitoring system or monitoring device performance measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required in a permanent form suitable for inspection by Department personnel.</p>
C.4	<p>Emission Unit ID: 01</p> <p>Equipment/Control Device ID: LDF/FL01</p> <p>All gauges shall be readily accessible and easily read by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level). Monitoring parameter readings (i.e., pressure drop readings, etc.) and inspection checks shall be maintained in logs (written or electronic), along with any corrective action taken when deviations occur. Each incidence of operation outside the operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site.</p>

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

(S.C. Regulation 61-62.1, Section II; S.C. Regulation 61-62.70.6.a.3.i.B)

Condition Number	Condition
	<p>Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Reports of these incidences shall be submitted semiannually. If no incidences occurred during the reporting period then a letter shall indicate such.</p> <p>Any alternative method for monitoring control device performance must be preapproved by the Bureau and shall be incorporated into the permit as set forth in SC Regulation 61-62.70.7.</p>
C.5	<p>Emission Unit ID: 01</p> <p>Equipment/Control Device ID: LDF/FL01</p> <p><u>General Record Keeping/Reporting for NMOC:</u></p> <p>In accordance with §60.758 (a), each owner or operator of an MSW landfill subject to the provisions of §60.752(b) shall keep for at least 5 years up-to-date, readily accessible, on-site records of the design capacity report which triggered §60.752(b); the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable.</p> <p>In accordance with 60.757 (b)(2) The NMOC emission rate report shall include all the data, calculations, sample reports and measurements used to estimate the annual or 5-year emissions</p> <p>In accordance with 60.752 (d) When a MSW landfill subject to this subpart is closed, the owner or operator is no longer subject to the requirement to maintain an operating permit under part 70 or 71 of this chapter for the landfill if the landfill is not otherwise subject to the requirements of either part 70 or 71 and if either of the following conditions are met:</p> <ol style="list-style-type: none">Per (d)(1) The landfill was never subject to the requirement for a control system under paragraph (b)(2) of this section;Per (d)(2) The owner or operator meets the conditions for control system removal specified in paragraph (b)(2)(v) of this section. <p>If the landfill is permanently closed, a closure notification shall be submitted to the Administrator as provided for in §60.757(d).</p>
C.6	<p>Emission Unit ID: 01</p> <p>Equipment/Control Device ID: LDF/FL01</p> <p>The Union County Regional Municipal Solid Waste Landfill (Upstate Landfill) is subject to New Source Performance Standards (NSPS), 40 CFR 60 Subparts A, General Provisions and Subpart WWW,</p>

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

(S.C. Regulation 61-62.1, Section II; S.C. Regulation 61-62.70.6.a.3.i.B)

Condition Number	Condition
	Standards of Performance for Municipal Solid Waste Landfills, as applicable. The facility shall comply with all applicable requirements of Subparts A and WWW.
C.7	<p>Emission Unit ID: 01</p> <p>Equipment/Control Device ID: LDF/FL01</p> <p>The Union County Regional Municipal Solid Waste Landfill (Upstate Landfill) is subject to New Source Performance Standards (NSPS), 40 CFR 60 Subpart A, General Provisions and Subpart XXX, Standards Of Performance For Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, Or Modification After July 17, 2014, as applicable. The facility shall comply with all applicable requirements of Subparts A and XXX.</p>
C.8	<p>Emission Unit ID: 01</p> <p>Equipment/Control Device ID: LDF/FL01; FDE</p> <p>(S.C. Regulation 61-62.5 Standard 4 Section X(A)) All non-enclosed operations shall be conducted in such a manner that a minimum of particulate matter becomes airborne. In no case shall established ambient air quality standards be exceeded at or beyond the property line.</p> <p>(S.C. Regulation 61-62.5 Standard 4 Section X(B) and S.C. Regulation 61-62.6 Section III(d)) The owner or operator of all such operations shall maintain dust control of the premises and any roadway owned or controlled by the owner/ operator by paving or other suitable measures. Volatile organic compounds shall not be used for dust control purposes and oil treatment is also prohibited.</p>
C.9	<p>Emission Unit ID: 03</p> <p>Equipment/Control Device ID: FL01</p> <p>(S.C. Regulation 61-62.5, Standard No. 3, Section III.I.1) Emissions from this source shall not exhibit an opacity greater than 20%.</p> <p>The Flare is permitted to burn only landfill gas as fuel using propane as an initiating fuel. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality.</p> <p>In accordance with SC Regulation 61-62.5 Standard 3 Section VII(C); the owner/operator shall operate the flare according to the manufacturer recommendations.</p> <p>In accordance with SC Regulation 61-62.1 Section V (j), all information used to determine compliance</p>

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

(S.C. Regulation 61-62.1, Section II; S.C. Regulation 61-62.70.6.a.3.i.B)

Condition Number	Condition
	<p>with this Section (i.e. MSDS, waste manifest, waste analyses) must be kept on site.</p> <p>(S.C. Regulation 61-62.5, Standard No.3, Section III.I.2) Particulate matter emissions from this source shall not exceed 0.5 lb/10⁶ Btu total heat input. The total heat input value from waste and virgin fuel used for production shall not exceed the Btu's used to affect the combustion of the waste and shall not include any Btu input from auxiliary burners located outside of the primary combustion chamber such as those found in secondary combustion chambers, tertiary combustion chambers or afterburners unless those auxiliary burners are fired with waste. In the case where waste is fired in the auxiliary burners located outside of the primary combustion chamber, only the Btu value of the fuel for the auxiliary burner which is from waste shall be added to the total heat input value.</p>

D. NESHAP PERIODIC REPORTING SCHEDULE SUMMARY

NESHAP Part	NESHAP Subpart	Compliance Monitoring Report Submittal Frequency	Reporting Period	Report Due Date
61	M	Semi-Annual	January - June, July - December	July 30, January 30
63	ZZZZ (Emergency Generators see note 3 and 4)	N/A	N/A	N/A
63	AAAA	Semiannual	January 1 through June 30 July 1 through December 31	Initial report submitted within 180 days of installation and start-up of the GCCS, then every six months thereafter

1. This table summarizes only the periodic compliance reporting schedule. Additional reports may be required. See specific NESHAP Subpart for additional reporting requirements and associated schedule.
2. This reporting schedule does not supersede any other reporting requirements including but not limited to 40 CFR Part 60, 40 CFR Part 61, 40 CFR Part 63, and/or Title V. The MACT reporting schedule may be adjusted to coincide with the Title V reporting schedule with prior approval from the Department in accordance with 40 CFR Part 63.10.a.5. This request may be made 1 year after the compliance date for the associated MACT standard.
3. Facilities with emergency generators are not required to submit reports. Only facilities with non-emergency engines are required to submit semi annual reports.
4. Facilities with emergency engines shall comply with the operations limits specified in 40 CFR 63.6640(f).

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E. NESHAP - CONDITIONS

Condition Number	Condition
E.1	All NESHAP notifications and reports shall be sent to the Manager of the Air Toxics Section, South Carolina Department of Health and Environmental Control - Bureau of Air Quality.
E.2	All NESHAP notifications and the cover letter to periodic reports shall be sent to the United States Environmental Protection Agency (US EPA) at the following address or electronically as required by the specific subpart: US EPA, Region 4 Air, Pesticides and Toxics Management Division 61 Forsyth Street SW Atlanta, GA 30303
E.3	Emergency power generators less than or equal to 150 kilowatt (kW) rated capacity or greater than 150 kW rated capacity designated for emergency use only and operated a total of 500 hours per year or less for testing and maintenance with a method to record the actual hours of use such as an hour meter have been determined to be exempt from construction permitting requirements in accordance with South Carolina Regulation 61-62.1. These sources shall still comply with the requirements of all applicable regulations including but not limited to the following: New Source Performance Standards (NSPS) 40 CFR 60 Subpart A (General Provisions); NSPS 40 CFR 60 Subpart IIII (Stationary Compression Ignition Internal Combustion Engines); NSPS 40 CFR 60 Subpart JJJJ (Stationary Spark Ignition Internal Combustion Engines); National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63 Subpart A (General Provisions); and NESHAP 40 CFR 63 Subpart ZZZZ (Stationary Reciprocating Internal Combustion Engines).
E.4	This facility has processes subject to the provisions of SC Regulation 61-62.61 National Emissions Standards for Hazardous Air Pollutants and 40 CFR Part 61 National Emission Standards for Hazardous Air Pollutants, Subparts A and M – National Emission Standard for Asbestos. Existing affected sources shall comply with the applicable provisions by the compliance date specified in Subpart M – National Emission Standard for Asbestos. Any new affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted. The owner/operator shall comply with the applicable operating, recordkeeping and notification requirements for active waste disposal sites as specified by 40CFR61.154.
E.5	This facility has processes subject to the provisions of S.C. Regulation 61-62.63 and 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and Subpart AAAA – National Emission Standards For Hazardous Air Pollutants: Municipal Solid Waste Landfills. Existing affected sources shall be in compliance with the requirements of these Subparts by the compliance date, unless otherwise noted. Any new affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted.

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E. NESHAP - CONDITIONS

Condition Number	Condition
E.6	<p>In accordance with 40 CFR 63.6(e) - At all times, including periods of startup, shutdown, and malfunction, the owner or operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. During a period of startup, shutdown, or malfunction, this general duty to minimize emissions requires that the owner or operator reduce emissions from the affected source to the greatest extent which is consistent with safety and good air pollution control practices. The general duty to minimize emissions during a period of startup, shutdown, or malfunction does not require the owner or operator to achieve emission levels that would be required by the applicable standard at other times if this is not consistent with safety and good air pollution control practices, nor does it require the owner or operator to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Bureau which may include, but is not limited to, monitoring results, review of operation and maintenance procedures (including the startup, shutdown, and malfunction plan required in 40 CFR 63.6(e)(3)), review of operation and maintenance records, and inspection of the source.</p> <p>Malfunctions must be corrected as soon as practicable after their occurrence. To the extent that an unexpected event arises during a startup, shutdown, or malfunction, an owner or operator must comply by minimizing emissions during such a startup, shutdown, and malfunction event consistent with safety and good air pollution control practices.</p> <p>Operation and maintenance requirements established pursuant to section 112 of the Act are enforceable independent of emissions limitations or other requirements in relevant standards.</p>
E.7	<p>In accordance with 40 CFR 63.6(e)(3) The owner or operator of an affected source must develop a written startup, shutdown, and malfunction plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction; and a program of corrective action for malfunctioning process, air pollution control, and monitoring equipment used to comply with the relevant standard. The startup, shutdown, and malfunction plan does not need to address any scenario that would not cause the source to exceed an applicable emission limitation in the relevant standard. This plan must be developed by the owner or operator by the source's compliance date for that relevant standard. The purpose of the startup, shutdown, and malfunction plan is further described in 40 CFR 63.6 (e)(3)(i) through (e)(3)(ix).</p>
E.8	<p>(40CFR63.1955(a)(1)) The owner/operator shall comply with the requirements of 40CFR60 Subpart WWW as referenced in 40 CFR 63 Subpart AAAA.</p>

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E. NESHAP - CONDITIONS

Condition Number	Condition
E.9	(40CFR63.1960) Compliance is determined in the same way it is determined for 40CFR60 Subpart WWW including performance testing, monitoring of the collection system, continuous parameter monitoring, and other credible evidence. In addition, continuous parameter monitoring data, collected under 40CFR60.756(b)(1), 40CFR60.756(c)(1) and 40CFR60.756(d) of Subpart WWW, are used to demonstrate compliance with the operating conditions for control systems. If a deviation occurs, the owner/operator has failed to meet the control device operating conditions described in this subpart and have deviated from the requirements of this subpart. Finally, the owner/operator must develop a written SSM plan according to the provisions in 40CFR63.6(e)(3). A copy of the SSM plan must be maintained on site. Failure to write or maintain a copy of the SSM plan is a deviation from the requirements of 40CFR63 Subpart AAAA.
E.10	(40CFR63.1965) A deviation is defined in 40CFR63.1990. For the purposes of the landfill monitoring and SSM plan requirements, deviations include the following items: (a) A deviation occurs when the control device operating parameter boundaries described in 40CFR60.758(c)(1) are exceeded. (b) A deviation occurs when 1 hour or more of the hours during the 3-hour block averaging period does not constitute a valid hour of data. A valid hour of data must have measured values for at least three 15-minute monitoring periods within the hour. (c) A deviation occurs when a SSM plan is not developed or maintained on site.
E.11	(40CFR63.1975) Averages are calculated in the same way as they are calculated in 40CFR60 Subpart WWW except that the data collected during monitoring system breakdowns, repairs, calibration checks, and zero (low-level) and high-level adjustments, startups, shutdowns and malfunctions are not to be included in any average computed under 40CFR63 Subpart AAAA.
E.12	(40CFR63.1980(a)) The owner/operator shall keep records and reports as specified in 40CFR60 Subpart WWW, with one exception: The owner/operator must submit the report described in 40CFR60.757(f) every 6 months. (40CFR63.1980(b)) The owner/operator must keep records and reports as specified in the general provisions of 40CFR60 and Table 1 of Subpart AAAA. Applicable records in the general provisions include items such as SSM plans and the SSM plan reports.

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E. NESHAP - CONDITIONS

Condition Number	Condition
E.13	<p>Equipment/Control Device ID: LDF/CD-FL01; GCCS</p> <p>In accordance with 40 CFR 60.11(d), At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Bureau which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.</p>
E.14	<p>Equipment/Control Device ID: LDF/CD-FL01; GCCS</p> <p>(40CFR60.18(c)(1) and 40CFR60.18(f)(1)) The flare shall be designed for and operated with no visible emissions except for periods not to exceed a total of 5 minutes during any 2 consecutive hours. 40CFR60 Appendix A Method 22 shall be used to determine compliance with the no visible emissions. The observation period is 2 hours and shall be used according to Method 22.</p> <p>(40CFR 60.18(c)(2) and 40CFR60.18(f)(2)) The flare shall be operated with a flame present at all times. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame.</p> <p>(40CFR 60.18(c)(3) The owner/operator has the choice of adhering to either the heat content specifications in 40CFR 60.18(c)(3)(ii) and the maximum tip velocity specifications in 40CFR 60.18(c)(4), or adhering to the requirements in 40CFR 60.18(c)(3)(i).</p> <p>(40CFR60.18(d)) The owner/ operator shall monitor the flare to ensure that it is operated and maintained in conformance with its design. Applicable subparts will provide provisions stating how owners or operators of flares shall monitor these control devices.</p> <p>(40CFR 60.18(e)) The flare shall be operated at all times when emissions may be vented to it.</p>

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E.15	<p>Equipment/Control Device ID : LDF/CD-FL01; GCCS</p> <p>(40CFR60.752(b)(2)(ii)) The owner/operator shall install a collection and control system that captures the gas generated within the landfill as required by paragraphs (b)(2)(ii)(A) or (B) and (b)(2)(iii) of this section within 30 months after the first annual report in which the emission rate equals or exceeds 50 megagrams per year.</p> <p>(40CFR60.752(b)(2)(iii)(A)) An open flare designed and operated in accordance with 40CFR60.18 except as noted in 40CFR60.754(e).</p> <p>(40CFR60.752 (b)(2)(iii)(B)) A control system designed and operated to reduce NMOC by 98 weight-percent, or, when an enclosed combustion device is used for control, to either reduce NMOC by 98 weight percent or reduce the outlet NMOC concentration to less than 20 parts per million by volume, dry basis as hexane at 3 percent oxygen. The reduction efficiency or parts per million by volume shall be established by an initial performance test to be completed no later than 180 days after the initial startup of the approved control system using the test methods specified in §60.754(d).</p> <p>40CFR60.752(b)(2)(iv) The owner/operator shall operate the collection and control device installed to comply with the provisions of §§60.753, 60.755 and 60.756.</p> <p>60.752(b)(2)(v) The collection and control system may be capped or removed provided that all the conditions of paragraphs (b)(2)(v)(A), (B), and (C) of this section are met:</p> <p>60.752(b)(2)(v)(A) The landfill shall be a closed landfill as defined in §60.751 of this subpart. A closure report shall be submitted to the Administrator as provided in §60.757(d);</p> <p>60.752(b)(2)(v)(B) The collection and control system shall have been in operation a minimum of 15 years; and</p> <p>60.752(b)(2)(v)(C) Following the procedures specified in §60.754(b) of this subpart, the calculated NMOC gas produced by the landfill shall be less than 50 megagrams per year on three successive test dates. The test dates shall be no less than 90 days apart, and no more than 180 days apart.</p> <p>60.752(d) When a MSW landfill subject to this subpart is closed, the owner or operator is no longer subject to the requirement to maintain an operating permit under part 70 or 71 of this chapter for the landfill if the landfill is not otherwise subject to the requirements of either part 70 or 71 and if either of the following conditions are met:</p> <p>60.752(d)(1) The landfill was never subject to the requirement for a control system under paragraph (b)(2) of this section; or</p> <p>60.752(d)(2) The owner or operator meets the conditions for control system removal specified in paragraph (b)(2)(v) of this section.</p>
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E. NESHAP - CONDITIONS

Condition Number	Condition
E.16	<p>Equipment/Control Device ID: LDF/CD-FL01; GCCS</p> <p>(40CFR60.753(a)) The owner/operator of an MSW landfill with a gas collection and control system used to comply with the provisions of 60.752(b)(2)(ii) shall:</p> <p>60.753(a) Operate the collection system such that gas is collected from each area, cell, or group of cells in the MSW landfill in which solid waste has been in place for : 5 years or more if active; or 2 years or more if closed or at final grade.</p>
E.17	<p>Equipment/Control Device ID: LDF/CD-FL01; GCCS</p> <p>(40CFR60.753(b)) The owner/operator shall operate the collection system with negative pressure at each wellhead except under the following conditions:</p> <p>(b)(1) A fire or increased well temperature. The owner/operator shall record instances when positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the semiannual report as specified in 40CFR60.757(f)(1)</p> <p>(b)(2) Use of a geomembrane or synthetic cover. The owner/operator shall develop acceptable pressure limits in the design plan</p> <p>(b)(3) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes shall be approved by the Department.</p>

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E. NESHAP - CONDITIONS

Condition Number	Condition
E.18	<p>Equipment/Control Device ID: LDF/CD-FL01; GCCS</p> <p>(40CFR60.753(c)) The owner/operator shall operate each interior wellhead in the collection system with a landfill gas temperature less than 55°C and with either a nitrogen level less than 20% or an oxygen level less than 5%. The owner/operator may establish a higher operating temperature, nitrogen, or oxygen value at a particular well. A higher operating value demonstration shall show supporting data that the elevated parameter does not cause fires or significantly inhibit anaerobic decomposition by killing methanogens.</p> <p>60.753(c)(1) The nitrogen level shall be determined using Method 3C, unless an alternative test method is established as allowed by 40CFR60.752(b)(2)(i)</p> <p>60.753(c)(2) Unless an alternative test method is established as allowed by 40CFR60.752(b)(2)(i), the oxygen shall be determined by an oxygen meter using Method 3A or Method 3C except that:</p> <p>60.753(c)(2)(i) The span shall be set so that the regulatory limit is between 20 and 50% of the span</p> <p>60.753(c)(2)(ii) A data recorder is not required</p> <p>60.753(c)(2)(iii) Only two calibration gases are required, a zero and span, and ambient air may be used as the span</p> <p>60.753(c)(2)(iv) A calibration error check is not required</p> <p>60.753(c)(2)(v) The allowable sample bias, zero drift, and calibration drift are $\pm 10\%$.</p>

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E. NESHAP - CONDITIONS

Condition Number	Condition
E.19	<p>Equipment/Control Device ID: LDF/CD-FL01; GCCS</p> <p>(40CFR60.753(d)) The owner/operator shall operate the collection system so that the methane concentration is less than 500 parts per million above background at the surface of the landfill. To determine if this level is exceeded, the owner/operator shall conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. The owner/operator may establish an alternative traversing pattern that ensures equivalent coverage. A surface monitoring design plan shall be developed that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the 30 meter intervals. Areas with steep slopes or other dangerous areas may be excluded from the surface testing.</p> <p>The owner/operator shall use the procedures specified in 40CFR60.755(c) for compliance with the surface methane operational standard in 40CFR60.753(d).</p>
E.20	<p>Equipment/Control Device ID: LDF/CD-FL01; GCCS</p> <p>(40CFR60.753(e)) The owner/operator shall operate the system such that all collected gases are vented to a control system designed and operated in compliance with 40CFR60.752(b)(2)(iii). In the event the collection or control system is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere shall be closed within 1 hour.</p> <p>(40CFR60.753(f)) The owner/operator shall operate the control or treatment system at all times when the collected gas is routed to the system.</p> <p>(40CFR60.753(g)) If monitoring demonstrates that the operational requirements in 40CFR60.753(b), 40CFR60.753(c), or 40CFR60.753(d) are not met, corrective action shall be taken as specified in 40CFR60.755(a)(3) through 40CFR60.755(a)(5) or 40CFR60.755(c). If corrective actions are taken as specified in 40CFR60.755, the monitored exceedance is not a violation of the operational requirements in 40CFR60.753.</p>

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E. NESHAP - CONDITIONS

Condition Number	Condition
E.21	<p>Equipment/Control Device ID: LDF/CD-FL01; GCCS</p> <p>(40 CFR 60.754(b)) After the installation of a collection and control system in compliance with §60.755, the owner or operator shall calculate the NMOC emission rate for purposes of determining when the system can be removed as provided in §60.752(b)(2)(v), using the following equation: $\text{NMNOC} = 1.89 \times 10^{-3} \text{ QLFG CNMOC}$where, NMNOC = mass emission rate of NMOC, megagrams per year QLFG = flow rate of landfill gas, cubic meters per minute CNMOC = NMOC concentration, parts per million by volume as hexane</p> <p>(40 CFR 60.754(d)) For the performance test required in §60.752(b)(2)(iii)(B), Method 25, 25C, or Method 18 of Appendix A of this part must be used to determine compliance with the 98 weight-percent efficiency or the 20 ppmv outlet concentration level, unless another method to demonstrate compliance has been approved by the Administrator as provided by §60.752(b)(2)(i)(B). Method 3 or 3A shall be used to determine oxygen for correcting the NMOC concentration as hexane to 3 percent. In cases where the outlet concentration is less than 50 ppm NMOC as carbon (8 ppm NMOC as hexane), Method 25A should be used in place of Method 25. If using Method 18 of appendix A of this part, the minimum list of compounds to be tested shall be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42).</p> <p>(40 CFR 60.754 (e)) For the performance test required in §60.752(b)(2)(iii)(A), the net heating value of the combusted landfill gas as determined in §60.18(f)(3) is calculated from the concentration of methane in the landfill gas as measured by Method 3C. A minimum of three 30-minute Method 3C samples are determined. The measurement of other organic components, hydrogen, and carbon monoxide is not applicable. Method 3C may be used to determine the landfill gas molecular weight for calculating the flare gas exit velocity under §60.18(f)(4).</p>

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E. NESHAP - CONDITIONS

Condition Number	Condition
E.22	<p>Equipment/Control Device ID: LDF/CD-FL01; GCCS</p> <p>(40 CFR 60.755 (a)) Except as provided in §60.752(b)(2)(i)(B), the specified methods in paragraphs 60.755(a)(1) through 60.755(a)(6) shall be used to determine whether the gas collection system is in compliance with §60.752(b)(2)(ii).</p> <p>(40CFR60.755(b)) For purposes of compliance with 40CFR60.753(a), the owner/operator shall place each well or design component as specified in the approved design plan as provided in 40CFR60.752(b)(2)(i). Each well shall be installed no later than 60 days after the date on which the initial solid waste has been in place for a period of 5 years or more if active or 2 years or more if closed or at final grade.</p> <p>(40CFR60.755 (c) The procedures of 60.755(c)(1) through (c)(5) shall be used for compliance with the surface methane operational standard as provided in 60.753(d).</p> <p>(40CFR60.755 (d) Each owner or operator seeking to comply with the provisions in paragraph (c) of 60.755 shall comply with the instrumentation specifications and procedures for surface emission monitoring devices as specified in 60.755(d)(1) through (d)(4).</p> <p>(40 CFR 60.755(e)) The provisions of this subpart apply at all times, except during periods of start-up, shutdown, or malfunction, provided that the duration of start-up, shutdown, or malfunction shall not exceed 5 days for collection systems and shall not exceed 1 hour for treatment or control devices.</p>
E.23	<p>Equipment/Control Device ID: LDF/CD-FL01; GCCS</p> <p>(40CFR60.756(c)) Except as provided in 40CFR60.752(b)(2)(i)(B), each owner or operator seeking to comply with 40CFR60.752(b)(2)(ii)(A) for an active gas collection system shall install a sampling port and a thermometer, other temperature measuring device, or an access port for temperature measurements at each wellhead and:</p> <p>60.756(a)(1) Measure the gauge pressure in the gas collection header on a monthly basis as provided in 40CFR60.755(a)(3)</p> <p>60.756(a)(2) Monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis as provided in 40CFR60.755(a)(5)</p> <p>60.756(a)(3) Monitor temperature of the landfill gas on a monthly basis as provided in 40CFR60.755(a)(5)</p>

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E. NESHAP - CONDITIONS

Condition Number	Condition
E.24	<p>Equipment/Control Device ID: LDF/CD-FL01; GCCS</p> <p>(40CFR756(c)) Except as provided in 40CFR60.752(b)(2)(i)(B), each owner or operator seeking to comply with 40CFR60.752(b)(2)(iii) using an open flare shall install, calibrate, maintain, and operate according to the manufacturer's specifications the following equipment:</p> <p>60.756(c)(1) A heat sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself to indicate the continuous presence of a flame.</p> <p>60.756(c)(2) A device that records flow to or bypass of the flare. The owner/operator shall install either:</p> <p>60.756(c)(2)(i) Install, calibrate, and maintain a gas flow rate measuring device that shall record the flow to the control device at least every 15 minutes or</p> <p>60.756(c)(2)(ii) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.</p> <p>(40CFR60.756(f)) Each owner or operator seeking to demonstrate compliance with §60.755(c), shall monitor surface concentrations of methane according to the instrument specifications and procedures provided in §60.755(d). Any closed landfill that has no monitored exceedances of the operational standard in three consecutive quarterly monitoring periods may skip to annual monitoring. Any methane reading of 500 ppm or more above background detected during the annual monitoring returns the frequency for that landfill to quarterly monitoring.</p>
E.25	<p>Equipment/Control Device ID: LDF/CD-FL01; GCCS</p> <p>Each owner or operator subject to the requirements of 40 CFR 60 Subpart WWW shall comply with the applicable reporting requirements in 40 CFR 60.757.</p>

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E. NESHAP - CONDITIONS

Condition Number	Condition
E.26	<p>Equipment/Control Device ID: LDF/CD-FL01; GCCS</p> <p>(40CFR60.757(d)) Each owner or operator of a controlled landfill shall submit a closure report to the Department within 30 days of waste acceptance cessation. The Department may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of 40 CFR 258.60. If a closure report has been submitted to the Department, no additional wastes may be placed into the landfill without filing a notification of modification as described under §60.7(a)(4).</p> <p>(40CFR60.757(e)) Each owner or operator of a controlled landfill shall submit an equipment removal report to the Department 30 days prior to removal or cessation of operation of the control equipment.</p>
E.27	<p>Equipment/Control Device ID: LDF/CD-FL01; GCCS</p> <p>(40 CFR 60.757(f)) Each owner or operator of a landfill seeking to comply with 40 CFR 60.752(b)(2) using an active collection system designed in accordance with 40 CFR 60.752(b)(2)(ii) shall submit to the Bureau semiannual reports of the recorded information in 40 CFR 60.757(f)(1) through (f)(6). For enclosed combustion devices and flares, reportable exceedances are defined under 40 CFR 60.758(c).</p> <p>60.757(f)(1) Value and length of time for exceedance of applicable parameters monitored under 40 CFR 60.756(a), (b), (c), and (d).</p> <p>60.757(f)(2) Description and duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow as specified under 40 CFR 60.756.</p> <p>60.757(f)(3) Description and duration of all periods when the control device was not operating for a period exceeding 1 hour and length of time the control device was not operating.</p> <p>60.757(f)(4) All periods when the collection system was not operating in excess of 5 days.</p> <p>60.757(f)(5) The location of each exceedance of the 500 parts per million methane concentration as provided in 40 CFR 60.753(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month.</p> <p>60.757(f)(6) The date of installation and the location of each well or collection system expansion added pursuant to paragraphs (a)(3), (b), and (c)(4) of 40 CFR 60.755.</p>

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E. NESHAP - CONDITIONS

Condition Number	Condition
E.28	<p>Equipment/Control Device ID: LDF/CD-FL01; GCCS</p> <p>(40 CFR 60.757(g)) Each owner or operator seeking to comply with §60.752(b)(2)(iii) shall include the following information with the initial performance test report required under §60.8:</p> <p>60.757 (g)(1) A diagram of the collection system showing collection system positioning including all wells, horizontal collectors, surface collectors, or other gas extraction devices, including the locations of any areas excluded from collection and the proposed sites for the future collection system expansion;</p> <p>60.757 (g)(2) The data upon which the sufficient density of wells, horizontal collectors, surface collectors, or other gas extraction devices and the gas mover equipment sizing are based;</p> <p>60.757 (g)(3) The documentation of the presence of asbestos or nondegradable material for each area from which collection wells have been excluded based on the presence of asbestos or nondegradable material;</p> <p>60.757 (g)(4) The sum of the gas generation flow rates for all areas from which collection wells have been excluded based on nonproductivity and the calculations of gas generation flow rate for each excluded area; and</p> <p>60.757 (g)(5) The provisions for increasing gas mover equipment capacity with increased gas generation flow rate, if the present gas mover equipment is inadequate to move the maximum flow rate expected over the life of the landfill; and</p> <p>60.757 (g)(6) The provisions for the control of off-site migration.</p>
E.29	<p>Equipment/Control Device ID: LDF/CD-FL01; GCCS</p> <p>Each owner or operator subject to the requirements of 40 CFR 60 Subpart WWW shall comply with the applicable record keeping requirements in 40 CFR 60.758.</p>
E.30	<p>Equipment/Control Device ID: LDF/CD-FL01; GCCS</p> <p>The owner/operator shall keep records of the information listed in 40CFR60.758 except for 40CFR60.758(b)(2), 40CFR60.758(b)(3), 40CFR60.758(c)(3), 40CFR60.758(c)(1)(i) and 40CFR60.758(c)(1)(ii).</p>

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E.31	<p><u>Active Asbestos Waste Disposal Site</u></p> <p>In Accordance with 40 CFR §61.154 (a)(b); Each owner or operator of an active waste disposal site that receives asbestos-containing waste material from a source covered under §§61.149, 61.150, or 61.155 shall meet the requirements of this section:</p> <p>(a) Either there must be no visible emissions to the outside air from any active waste disposal site where asbestos-containing waste material has been deposited, or the requirements of paragraph (c) or (d) of 40 CFR §61.154 must be met.</p> <p>(b) Unless a natural barrier adequately deters access by the general public, either warning signs and fencing must be installed and maintained as follows, or the requirements of paragraph (c)(1) of 40 CFR §61.154 must be met.</p> <p>In Accordance with 40 CFR §61.154 (e); For all asbestos-containing waste material received, the owner or operator of the active waste disposal site shall:</p> <ol style="list-style-type: none">1. Maintain waste shipment records, using a form similar to that shown in Figure 4, and include the following information:<ol style="list-style-type: none">(i) The name, address, and telephone number of the waste generator.(ii) The name, address, and telephone number of the transporter(s).(iii) The quantity of the asbestos-containing waste material in cubic meters (cubic yards).(iv) The presence of improperly enclosed or uncovered waste, or any asbestos-containing waste material not sealed in leak-tight containers. Report in writing to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record), and, if different, the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the disposal site, by the following working day, the presence of a significant amount of improperly enclosed or uncovered waste. Submit a copy of the waste shipment record along with the report.(v) The date of the receipt.2. As soon as possible and no longer than 30 days after receipt of the waste, send a copy of the signed waste shipment record to the waste generator.3. Upon discovering a discrepancy between the quantity of waste designated on the waste shipment records and the quantity actually received, attempt to reconcile the discrepancy with the waste generator. If the discrepancy is not resolved within 15 days after receiving the waste, immediately report in writing to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record), and, if different, the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the disposal site. Describe the discrepancy and attempts to reconcile it, and submit a copy of the waste shipment record along with the report.4. Retain a copy of all records and reports required by this paragraph for at least 2 years. <p>In Accordance with 40 CFR §61.154 (f); Maintain, until closure, records of the location, depth and area,</p>
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E. NESHAP - CONDITIONS

Condition Number	Condition
	<p>and quantity in cubic meters (cubic yards) of asbestos-containing waste material within the disposal site on a map or diagram of the disposal area.</p> <p>In Accordance with 40 CFR §61.154 (g); Upon closure, comply with all the provisions of <u>§61.151</u></p> <p>In Accordance with 40 CFR §61.154 (h); Submit to the Administrator, upon closure of the facility, a copy of records of asbestos waste disposal locations and quantities.</p> <p>In Accordance with 40 CFR §61.151(c); The owner or operator may use an alternative control method that has received prior approval of the Administrator rather than comply with the requirements of paragraph (a) or (b) of this section.</p>
E.32	<p><u>Inactive Asbestos Waste Disposal Site</u></p> <p>In Accordance with 40 CFR §61.151(a); Each owner or operator of any inactive waste disposal site that was operated by sources covered under §§61.142, 61.144, or 61.147 and received deposits of asbestos-containing waste material generated by the sources, shall comply with one of the following:</p> <ol style="list-style-type: none">1. Either discharge no visible emissions to the outside air from an inactive waste disposal site subject to this paragraph; or2. Cover the asbestos-containing waste material with at least 15 centimeters (6 inches) of compacted non-asbestos-containing material, and grow and maintain a cover of vegetation on the area adequate to prevent exposure of the asbestos-containing waste material. In desert areas where vegetation would be difficult to maintain, at least 8 additional centimeters (3 inches) of well-graded, non-asbestos crushed rock may be placed on top of the final cover instead of vegetation and maintained to prevent emissions; or3. Cover the asbestos-containing waste material with at least 60 centimeters (2 feet) of compacted non-asbestos-containing material, and maintain it to prevent exposure of the asbestos-containing waste; or4. For inactive waste disposal sites for asbestos tailings, a resinous or petroleum-based dust suppression agent that effectively binds dust to control surface air emissions may be used instead of the methods in paragraphs (a)(1), (2), and (3) of this section. Use the agent in the manner and frequency recommended for the particular asbestos tailings by the manufacturer of the dust suppression agent to achieve and maintain dust control. Obtain prior written approval of the Administrator to use other equally effective dust suppression agents. For purposes of this paragraph, any used, spent, or other waste oil is not considered a dust suppression agent.

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E. NESHAP - CONDITIONS

Condition Number	Condition
E.33	<p><u>Reporting to Comply with 40CFR 61 Subpart M</u></p> <p>In Accordance with 40 CFR §61.153 (a)(b);</p> <p>1. For sources subject to §§61.151 and 61.154:</p> <p>i. A brief description of the site; and</p> <p>ii. The method or methods used to comply with the standard or alternative procedures to be used.</p> <p>2. The information required by paragraph (a) of this section must accompany the information required by §61.10. Active waste disposal sites subject to §61.154 shall also comply with this provision. Roadways, demolition and renovation, spraying, and insulating materials are exempted from the requirements of §61.10(a). The information described in this section must be reported using the format of Appendix A of this part as a guide.</p>

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E. NESHAP - CONDITIONS

Condition Number	Condition										
E.34	<p>In Accordance with 40 CFR §61.151(b); Unless a natural barrier adequately deters access by the general public, install and maintain warning signs and fencing as follows, or comply with paragraph (a)(2) or (a)(3) of this section.</p> <p>1. Display warning signs at all entrances and at intervals of 100 m (328 ft) or less along the property line of the site or along the perimeter of the sections of the site where asbestos-containing waste material was deposited. The warning signs must:</p> <ul style="list-style-type: none"> (i) Be posted in such a manner and location that a person can easily read the legend; and (ii) Conform to the requirements for 51 cm x 36 cm (20" x 14") upright format signs specified in 29 CFR 1910.145(d)(4) and this paragraph; and (iii) Display the following legend in the lower panel with letter sizes and styles of a visibility at least equal to those specified in this paragraph. <table border="1"> <thead> <tr> <th colspan="2">ASBESTOS WARNING SIGN LEGEND AND NOTATION</th></tr> <tr> <th>Legend</th><th>Notation</th></tr> </thead> <tbody> <tr> <td>"Asbestos Waste Disposal Sta."</td><td>2.5 cm (1 inch) Sans Serif, Gothic or Block</td></tr> <tr> <td>"Do Not Create Dust....."</td><td>1.9 cm (3/4 inch) Sans Serif, Gothic or Block</td></tr> <tr> <td>"Breathing Asbestos is Hazardous to Your Health"</td><td>14 Point Gothic</td></tr> </tbody> </table> <p>2. Fence the perimeter of the site in a manner adequate to deter access by the general public.</p> <p>3. When requesting a determination on whether a natural barrier adequately deters public access, supply information enabling the Administrator to determine whether a fence or a natural barrier adequately deters access by the general public.</p>	ASBESTOS WARNING SIGN LEGEND AND NOTATION		Legend	Notation	"Asbestos Waste Disposal Sta."	2.5 cm (1 inch) Sans Serif, Gothic or Block	"Do Not Create Dust....."	1.9 cm (3/4 inch) Sans Serif, Gothic or Block	"Breathing Asbestos is Hazardous to Your Health"	14 Point Gothic
ASBESTOS WARNING SIGN LEGEND AND NOTATION											
Legend	Notation										
"Asbestos Waste Disposal Sta."	2.5 cm (1 inch) Sans Serif, Gothic or Block										
"Do Not Create Dust....."	1.9 cm (3/4 inch) Sans Serif, Gothic or Block										
"Breathing Asbestos is Hazardous to Your Health"	14 Point Gothic										

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E. NESHAP - CONDITIONS

Condition Number	Condition
E.35	<p>In Accordance with 40 CFR §61.151(d); Notify the Administrator in writing at least 45 days prior to excavating or otherwise disturbing any asbestos-containing waste material that has been deposited at a waste disposal site under this section, and follow the procedures specified in the notification. If the excavation will begin on a date other than the one contained in the original notice, notice of the new start date must be provided to the Administrator at least 10 working days before excavation begins and in no event shall excavation begin earlier than the date specified in the original notification. Include the following information in the notice:</p> <ol style="list-style-type: none">1. Scheduled starting and completion dates.2. Reason for disturbing the waste.3. Procedures to be used to control emissions during the excavation, storage, transport, and ultimate disposal of the excavated asbestos-containing waste material. If deemed necessary, the Administrator may require changes in the emission control procedures to be used.4. Location of any temporary storage site and the final disposal site. <p>A copy of the notification sent to the Administrator prior to excavating or otherwise disturbing any asbestos-containing waste material shall be maintained on-site.</p>
E.36	<p>In Accordance with 40 CFR §61.151(e); Within 60 days of a site becoming inactive and after the effective date of this subpart, record, in accordance with State law, a notation on the deed to the facility property and on any other instrument that would normally be examined during a title search; this notation will in perpetuity notify any potential purchaser of the property that:</p> <ol style="list-style-type: none">1. The land has been used for the disposal of asbestos-containing waste material;2. The survey plot and record of the location and quantity of asbestos-containing waste disposed of within the disposal site required in §61.154(f) have been filed with the Administrator; and3. The site is subject to 40 CFR 61, Subpart M. <p>A copy of Notification on the Deed to the facility property shall be maintained on-site.</p>

F. COMPLIANCE SCHEDULE

Condition Number	Conditions
F.1	N/A

G. PERMIT SHIELD

Condition Number	Condition
G.1	(S.C. Regulation 61-62.70.6.f) A copy of the "applicability determination" submitted with the Part 70

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G. PERMIT SHIELD

Condition Number	Condition											
	<p>permit application is included as Attachment – Applicable and Non-Applicable Federal and State Regulations. With the exception of those listed below, compliance with the terms and conditions of this permit shall be deemed compliance with the applicable requirements specified in Attachment – Applicable and Non-Applicable Federal and State Regulations as of the date of permit issuance provided that such applicable requirements are included and are specifically identified in the permit. Exceptions to this are stated below in the <i>Permit Shield Exceptions</i> Table. The owner or operator shall also be shielded from the non-applicable requirements specified in Attachment – Applicable and Non-Applicable Federal and State Regulations. Exceptions to this are stated below in the <i>Permit Shield Exceptions</i> Table.</p> <table><tr><th>Permit Shield Exceptions</th></tr><tr><td>40 CFR 61 – All Subparts</td></tr><tr><td>40 CFR 63 – All Subparts</td></tr><tr><td>40 CFR 61 Subpart M, National Emission Standard for Asbestos</td></tr><tr><td>SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration</td></tr><tr><td>SC Regulation 61-62.5, Standard No. 7(c), Ambient Air Increments</td></tr><tr><td>SC Regulation 61-62.5, Standard No. 7.1, Nonattainment New Source Review</td></tr><tr><td>SC Regulation 61-62.61 Subpart M, National Emission Standard for Asbestos</td></tr><tr><td>40 CFR 60 Subpart A, Standards Of Performance For New Stationary Sources</td></tr><tr><td>40 CFR 61 Subpart A, National Emission Standards For Hazardous Air Pollutants</td></tr><tr><td>40 CFR 63 Subpart A, National Emission Standards For Hazardous Air Pollutants For Affected Source Categories</td></tr></table> <p>Nothing in the permit shield or in any Part 70 permit shall alter or affect the provisions of Section 303 of the Act, Emergency Orders, of the Clean Air Act; the liability of the owner or operator for any violation of applicable requirements prior to or at the time of permit issuance; the applicable requirements of the Acid Rain Program, consistent with Section 408.a of the Clean Air Act; or the ability of US EPA to obtain information from a source pursuant to Section 114 of the Clean Air Act. In addition, the permit shield shall not apply to emission units in noncompliance at the time of permit issuance, minor permit modifications (S.C. Regulation 61-62.70.7.e.2), group processing of minor permit modifications (S.C. Regulation 61-62.70.7.e.3), or operational flexibility (S.C. Regulation 61-62.70.7.e.5.i), except as specified in S.C. Regulation 61-62.70.7.e.5.iii.</p>	Permit Shield Exceptions	40 CFR 61 – All Subparts	40 CFR 63 – All Subparts	40 CFR 61 Subpart M, National Emission Standard for Asbestos	SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration	SC Regulation 61-62.5, Standard No. 7(c), Ambient Air Increments	SC Regulation 61-62.5, Standard No. 7.1, Nonattainment New Source Review	SC Regulation 61-62.61 Subpart M, National Emission Standard for Asbestos	40 CFR 60 Subpart A, Standards Of Performance For New Stationary Sources	40 CFR 61 Subpart A, National Emission Standards For Hazardous Air Pollutants	40 CFR 63 Subpart A, National Emission Standards For Hazardous Air Pollutants For Affected Source Categories
Permit Shield Exceptions												
40 CFR 61 – All Subparts												
40 CFR 63 – All Subparts												
40 CFR 61 Subpart M, National Emission Standard for Asbestos												
SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration												
SC Regulation 61-62.5, Standard No. 7(c), Ambient Air Increments												
SC Regulation 61-62.5, Standard No. 7.1, Nonattainment New Source Review												
SC Regulation 61-62.61 Subpart M, National Emission Standard for Asbestos												
40 CFR 60 Subpart A, Standards Of Performance For New Stationary Sources												
40 CFR 61 Subpart A, National Emission Standards For Hazardous Air Pollutants												
40 CFR 63 Subpart A, National Emission Standards For Hazardous Air Pollutants For Affected Source Categories												

H. PERMIT FLEXIBILITY

Condition Number	Conditions
H.1	The facility may install, remove, and modify insignificant activities as defined in S.C. Regulation 61-

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H. PERMIT FLEXIBILITY

Condition Number	Conditions
	62.70.5.c and exempt sources as listed in S.C. Regulation 61-62.1, Section II.B, without revising or reopening the Title V Operating Permit. A list of insignificant activities/exempt sources must be maintained on site, along with any necessary documentation to support the determination that the activity is insignificant and/or exempt, and shall be made available to a Department representative upon request. The list shall be submitted with the next renewal application.

I. AMBIENT AIR STANDARDS REQUIREMENTS

Condition Number	Condition
I.1	<p>Air dispersion modeling (or other method) has demonstrated that this facility's operation will not interfere with the attainment and maintenance of any state or federal ambient air standard. Any changes in the parameters used in this demonstration may require a review by the facility to determine continuing compliance with these standards. These potential changes include any decrease in stack height, decrease in stack velocity, increase in stack diameter, decrease in stack exit temperature, increase in building height or building additions, increase in emission rates, decrease in distance between stack and property line, changes in vertical stack orientation, and installation of a rain cap that impedes vertical flow. Parameters that are not required in the determination will not invalidate the demonstration if they are modified. The emission rates used in the determination are listed in Attachment - Emission Rates for Ambient Air Standards of this permit. Higher emission rates may be administratively incorporated into Attachment - Emission Rates for Ambient Air Standards of this permit provided a demonstration using these higher emission rates shows the attainment and maintenance of any state or federal ambient air quality standard or with any other applicable requirement. Variations from the input parameters in the demonstration shall not constitute a violation unless the maximum allowable ambient concentrations identified in the standard are exceeded.</p> <p>The owner/operator shall maintain this facility at or below the emission rates as listed in Attachment - Emission Rates for Ambient Air Standards, not to exceed the pollutant limitations of this permit. Should the facility wish to increase the emission rates listed in Attachment - Emission Rates for Ambient Air Standards, not to exceed the pollutant limitations in the body of this permit, it may do so by the administrative process specified above. This is a State Only enforceable requirement.</p>

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J. TITLE V PERIODIC REPORTING SCHEDULE

Compliance Monitoring Report Submittal Frequency	Reporting Period (Begins on the effective date of the permit)	Report Due Date
Quarterly	January-March April-June July-September October-December	April 30 th July 30 th October 30 th January 30 th
Semiannual	January-June April-September July-December October-March	July 30 th October 30 th January 30 th April 30 th

Note: This reporting schedule does not supersede any Federal reporting requirements including but not limited to 40 CFR Part 60, 40 CFR Part 61, and 40 CFR Part 63. All Federal reports must meet the reporting time frames specified in the Federal standard unless the Department or EPA approves a change.

K. TITLE V COMPLIANCE CERTIFICATION REPORTING SCHEDULE

Title V Compliance Certification Submittal Frequency	Reporting Period (Begins on the effective date of the permit)	Report Due Date
Annual	January-December April-March July-June October-September	February 14 th May 15 th August 14 th November 14 th

L. TITLE V RECORD KEEPING AND REPORTING REQUIREMENTS

Condition Number	Condition
L.1	Reporting required in this permit, shall be submitted in a timely manner as directed in the Title V Periodic Reporting Schedule and the Title V Compliance Certification Reporting Schedule of this permit. All required reports must be certified by a responsible official consistent with S.C. Regulation 61-62.70.5.d.
L.2	All reports and notifications required under this permit shall be submitted to the person indicated in the specific condition at the following address: 2600 Bull Street Columbia, SC 29201 The contact information for the local EQC Regional office can be found at: http://www.scdhec.gov

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L. TITLE V RECORD KEEPING AND REPORTING REQUIREMENTS

Condition Number	Condition
L.3	Unless elsewhere specified within this permit, all reports required under this permit shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality.
L.4	All Title V Annual Compliance Certifications shall be sent to the US EPA, Region 4, Air Enforcement Branch and to the Manager of the Technical Management Section, Bureau of Air Quality. US EPA, Region 4 Air Enforcement Branch 61 Forsyth Street SW Atlanta, GA 30303
L.5	(S.C. Regulation 61-62.70.6.a.3.ii) The owner or operator shall comply, where applicable, with the following monitoring/support information collection and retention record keeping requirements: <ol style="list-style-type: none">1. Records of required monitoring information shall include the following:<ol style="list-style-type: none">a. The date, place as defined in the permit, and time of sampling or measurements;b. The date(s) analyses were performed;c. The company or entity that performed the analyses;d. The analytical techniques or methods used;e. The results of such analyses; andf. The operating conditions as existing at the time of sampling or measurement;2. Records of all required monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

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L. TITLE V RECORD KEEPING AND REPORTING REQUIREMENTS

Condition Number	Condition
L.6	<p>In accordance with S.C. Regulation 61-62.1, Section II.J, for sources not required to have continuous emissions monitors, any malfunction of air pollution control equipment or system, process upset or other equipment failure which results in discharges of air contaminants lasting for one hour or more and which are greater than those discharges described for normal operation in the permit application shall be reported to the Department's local Environmental Quality Control (EQC) Regional office within twenty-four (24) hours after the beginning of the occurrence.</p> <p>The owner or operator shall also submit a written report within thirty (30) days of the occurrence. This report shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality (BAQ) and shall include, at a minimum, the following:</p> <ol style="list-style-type: none">1. The identity of the stack and/or emission point where the excess emissions occurred;2. The magnitude of excess emissions expressed in the units of the applicable emission limitation and the operating data and calculations used in determining the excess emissions;3. The time and duration of excess emissions;4. The identity of the equipment causing the excess emissions;5. The nature and cause of such excess emissions;6. The steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunction;7. The steps taken to limit the excess emissions; and,8. Documentation that the air pollution control equipment, process equipment, or processes were at all times maintained and operated, to the maximum extent practicable, in a manner consistent with good practice for minimizing emissions.
L.7	<p>(S.C. Regulation 61-62.70.6.c.5.iii) The responsible official shall certify, annually, compliance with the conditions of this permit as required under S.C. Regulation 61-62.70.6.c. The compliance certification shall include the following:</p> <ol style="list-style-type: none">1. The identification of each term or condition of the permit that is the basis of the certification.2. The identification of the method(s) or means used by the owner or operator for determining the compliance status with each term and condition of the permit during the certification period.3. The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the method or means designated in S.C. Regulation 61-62.70.6.c.5.iii.B. The certification shall identify each deviation and take it into account in the compliance certification.4. Such other facts as the Department may require to determine the compliance status of the source.

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L. TITLE V RECORD KEEPING AND REPORTING REQUIREMENTS

Condition Number	Condition
L.8	(S.C. Regulation 61-62.1, Section II.M) Within 30 days of the transfer of ownership/operation of a facility, the current permit holder and prospective new owner or operator shall submit to the Director of Engineering Services a written request for transfer of the source operating or construction permits. The written request for transfer of the source operating or construction permit shall include any changes pertaining to the facility name and mailing address; the name, mailing address, and telephone number of the owner or operator for the facility; and any proposed changes to the permitted activities of the source. Transfer of the operating or construction permits will be effective upon written approval by the Department.

M. GENERAL FACILITY WIDE

Condition Number	Condition
M.1	The owner or operator shall comply with S.C. Regulation 61-62.2 "Prohibition of Open Burning."
M.2	The owner or operator shall comply with S.C. Regulation 61-62.3 "Air Pollution Episodes."
M.3	The owner or operator shall comply with S.C. Regulation 61-62.4 "Hazardous Air Pollution Conditions."
M.4	The owner or operator shall comply with S.C. Regulation 61-62.6 "Control of Fugitive Particulate Matter", Section III "Control of Fugitive Particulate Matter Statewide."
M.5	The owner or operator shall comply with the standards of performance for asbestos abatement operations pursuant to 40 CFR Part 61.145, including, but not limited to, requirements governing training, licensing, notification, work practice, cleanup, and disposal.
M.6	The owner or operator shall comply with the standards of performance for asbestos abatement operations pursuant to S.C. Regulation 61-86.1, including, but not limited to, requirements governing training, licensing, notification, work practice, cleanup, and disposal.
M.7	The owner or operator shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, Protection of Stratospheric Ozone, Recycling and Emissions Reduction, except as provided for motor vehicle air conditioners (MVACs) in Subpart B. If the owner or operator performs a service on motor (fleet) vehicles that involves ozone-depleting substance refrigerant in MVACs, the owner or operator is subject to all applicable requirements of 40 CFR Part 82, Subpart B, Servicing of MVACs.
M.8	(S.C. Regulation 61-62.70.6.a.5) The provisions of this permit are severable, and if any provision of this permit, or application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.
M.9	(S.C. Regulation 61-62.70.6.a.6.i) The owner or operator must comply with all of the conditions of this permit. Any permit noncompliance constitutes a violation of the S.C. Pollution Control Act and/or the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of permit renewal application.
M.10	(S.C. Regulation 61-62.70.6.a.6.ii) It shall not be a defense for an owner or operator in an enforcement

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M. GENERAL FACILITY WIDE

Condition Number	Condition
	action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
M.11	(S.C. Regulation 61-62.70.6.a.6.iii) The permit may be modified, revoked, reopened and reissued, or terminated for cause by the Department. The filing of a request by the owner or operator for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
M.12	(S.C. Regulation 61-62.70.6.a.6.iv) The permit does not convey any property rights of any sort, or any exclusive privilege.
M.13	(S.C. Regulation 61-62.70.6.a.6.v) The owner or operator shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the owner or operator shall also furnish to the Department copies of records required to be kept by the permit or, for information claimed to be confidential, the owner or operator may furnish such records directly to the Administrator along with a claim of confidentiality. The Department may also request that the owner or operator furnish such records directly to the Administrator along with a claim of confidentiality.
M.14	(S.C. Regulation 61-62.70.6.a.8) No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
M.15	<p>(S.C. Regulation 61-62.70.6.c.2) Upon presentation of credentials and other documents as may be required by law, the owner or operator shall allow the Department or an authorized representative to perform the following:</p> <ol style="list-style-type: none"> 1. Enter upon the owner or operator's premises where a Part 70 source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit. 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. 3. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit. 4. As authorized by the Act and/or the S.C. Pollution Control Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.
M.16	<p>(S.C. Regulation 61-62.70.6.g) In the case of an emergency, as defined in S.C. Regulation 61-62.70.6.g.1, the owner or operator shall demonstrate an affirmative defense of emergency through properly signed, contemporaneous operating logs, or other relevant evidence that:</p> <ol style="list-style-type: none"> 1. An emergency occurred and that the owner or operator can identify the cause(s) of the emergency; 2. The permitted facility was at the time being properly operated; and 3. During the period of the emergency the owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in

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M. GENERAL FACILITY WIDE

Condition Number	Condition
	<p>the permit; and</p> <p>4. The owner or operator shall submit verbal notification of the emergency to the Department within twenty-four (24) hours of the time when emission limitations were exceeded, followed by written notifications within thirty (30) days. This notice fulfills the requirement of S.C. Regulation 61-62.70.6.a.3.iii.B. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.</p> <p>This provision is in addition to any emergency or upset provision contained in any applicable requirement. In any enforcement proceeding, the owner or operator seeking to establish the occurrence of an emergency has the burden of proof.</p>
M.17	(S.C. Regulation 61-62.70.6.a.1.ii) Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be incorporated into the permit and shall be enforceable by the Administrator.
M.18	(S.C. Regulation 61-62.70.6.a.4) According to S.C. Regulation 61-62.70.6.a.4, the owner or operator is prohibited from emissions exceeding any allowances that the source lawfully holds under Title IV of the Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by a source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowances shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Act.
M.19	(S.C. Regulation 61-62.70.7.c.1.ii) Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with S.C. Regulation 61-62.70.5.a.1.iii, 62.70.5.a.2.iv, and 62.70.7.b. In this case, the permit shall not expire until the renewal permit has been issued or denied. All terms and conditions of the permit including any permit shield that may be granted pursuant to S.C. Regulation 61-62.70.6.f shall remain in effect until the renewal permit has been issued or denied.
M.20	Requests for permit modification and amendments shall be submitted on the appropriate Department approved Title V Modification Form(s).
M.21	(S.C. Regulation 61-62.70.6.a.7) The owners or operators of Part 70 sources shall pay fees to the Department consistent with the fee schedule approved pursuant to S.C. Regulation 61-62.70.9. Failure to pay applicable fee can be considered grounds for permit revocation.
M.22	<p>(S.C. Regulation 61-62.1, Section III) The owners or operators of Part 70 sources shall complete and submit a new updated emissions inventory consistent with the schedule approved pursuant to S.C. Regulation 61-62.1, Section III. These Emissions Inventory Reports shall be submitted to the Manager of the Emissions Inventory Section, Bureau of Air Quality.</p> <p>This requirement notwithstanding, an emissions inventory may be required at any time in order to determine the compliance status of any facility.</p>
M.23	This permit expressly incorporates insignificant activities. Emissions from these activities shall be

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M. GENERAL FACILITY WIDE

Condition Number	Condition
	included in the emissions inventory submittals as required by S.C. Regulation 61-62.1, Section III.B.2.g.

ATTACHMENT - Emission Rates for Ambient Air Standards

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The emission rates listed herein are not considered federally enforceable limitations but are used to evaluate ambient air quality impact. Until the Department makes a determination that a facility is causing or contributing to an exceedance of a state or federal ambient air quality standard, increases to these emission rates are not in themselves considered violations of these ambient air quality standards (see Ambient Air Standards Requirements).

AMBIENT AIR QUALITY STANDARDS - STANDARD NO. 2						
Emission Point ID	Emission Rates (lbs/hr)					
	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	Lead
FL-1	1.53	1.53	5.75	6.19	33.70	--
3 Solar Flares	0.10	0.10	0.04	0.21	0.90	--

TOXIC AIR POLLUTANTS - STANDARD NO. 8					
Emission Point ID	Emission Rates (lbs/hr)				
	Acrylonitrile 107-13-1	Ethanethiol (Ethyl Mercaptan) 75-08-1	Formaldehyde 50-00-0	Hydrochloric Acid 7647-01-0	
FL-1	0.000462	0.000195	--	0.705	
LF	0.102	0.0431	--	--	

TOXIC AIR POLLUTANTS - STANDARD NO. 8					
Emission Point ID	Emission Rates (lbs/hr)				
	Hydrogen Sulfide 7783-06-4	Methyl Mercaptan 74-93-1	1,1,2,2- Tetrachloroethan e 79-34-5	Toluene 108-88-3	Vinyl Chloride 75-01-4
FL-1	0.00938	0.000165	0.00171	0.00498	0.00421
LF	2.07	0.0364	0.0567	1.10	0.140

Attachment - Applicable and Non-Applicable Federal and State Regulations

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The following contains the Federal and South Carolina air pollution regulations and their applicability, as specified in the Part 70 permit application.

Regulation Citation	Regulation Title	Applicable?	
		Yes	No
SC 61-62.5 Standard 1	Emissions from Fuel Burning Operations	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SC 61-62.5 Standard 2	Ambient Air Quality Standard	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SC Regulation 61-62.5, Std. No. 3	Waste Combustion and Reduction	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SC Regulation 61-62.5, Std. No. 3.1	Air Pollution Control Standards – Hospital/Medical/Infectious Waste Incinerators	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SC Regulation 61-62.5, Std. No. 4	Emissions from Process Industries	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SC Regulation 61-62.5, Std. No. 5	Air Pollution Control Standards –Volatile Organic Compounds	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SC Regulation 61-62.5, Std. No. 5	LAER Applicable to VOCs	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SC 61-62.5 Standard 5.2	Control of Oxides of Nitrogen	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SC Regulation 61-62.5, Std. No. 6	Alternative Emission Limitation Options	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SC 61-62.5 Standard 7	Prevention of Significant Deterioration	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SC 61-62.5 Standard 8	Toxic Air Pollutants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SC 61-62.70	Title V Operating Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SC 61-62.72	Acid Rain Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40 CFR 60 Subpart A	NSPS General Provisions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
40 CFR 60 Subpart WWW	NSPS for MSW Landfills	<input checked="" type="checkbox"/>	<input type="checkbox"/>
40 CFR 60 Subpart XXX	NSPS for MSW Landfills	<input checked="" type="checkbox"/>	<input type="checkbox"/>
40 CFR 60 N/A with the exceptions of applicable portions of Subparts A, WWW, XXX			
40 CFR 61 Subparts A & M	NESHAP for Asbestos and General Provisions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
40 CFR 60 Subpart A	NSPS General Provisions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
40 CFR 63 Subpart AAAA	NESHAP for MSW Landfills	<input checked="" type="checkbox"/>	<input type="checkbox"/>
40 CFR 63 Subpart ZZZZ	NESHAP for Stationary RICE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
40 CFR 63 N/A with the exceptions of applicable portions of Subparts A, AAAA, ZZZZ			